

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A wireless communication apparatus comprising:
a multipath detection part which detects a state of multipath in said wireless communication apparatus; and
a send part which sends multipath detection information detected by said multipath detection part to another wireless communication apparatus via a wireless network;
wherein said another wireless communication apparatus generates a multipath component using said multipath detection information, generates a signal inverted from an interference wave signal ~~generated by using said multipath detection information detected~~ between said multipath component and a send signal, and sends the inverted signal and ~~[[a]]~~ said send signal to said wireless communication apparatus via the wireless network, and said wireless communication apparatus receives the inverted signal and the send signal so that an interference is canceled by the inverted signal.

Claims 2-3 (Canceled).

Claim 4 (Previously Presented): A wireless communication apparatus comprising:
a multipath component canceling signal generation part which generates a signal which cancels a multipath component in another wireless communication apparatus on the basis of multipath detection information representing a state of multipath sent from said another wireless communication apparatus via a wireless network; and
a send part which sends said signal which cancels said multipath component generated in said multipath component canceling signal generation part to said another wireless communication apparatus, wherein

said multipath component canceling signal generation part includes

- a multipath component generation part which generates a multipath component on the basis of said multipath detection information representing said state of multipath in said another wireless communication apparatus, and
- an interference wave detection part which detects an interference wave occurring between said multipath component and a send wave,

said interference wave detection part includes

- a filter part which filters a synthesized wave of said multipath component and said send wave, and
- an interference wave signal generation part which generates an interference wave signal corresponding to that in said wireless communication apparatus at the other end by comparing output signal from said filter part and said send wave.

Claim 5 (Original): The wireless communication apparatus as claimed in claim 4, further comprising:

- an opposite phase part which changes a phase of said interference wave signal to an opposite phase of said phase; and
- a send part which sends said interference wave signal having said opposite phase to said wireless communication apparatus at the other end.

Claim 6 (Previously Presented): The wireless communication apparatus as claimed in claim 5, wherein said wireless communication apparatus sends an opposite phase wave of said signal which cancels said multipath component at a time position of a multipath having no interference in order to cancel said signal which cancels said multipath component.

Claim 7 (Canceled).

Claim 8 (Currently Amended): A wireless communication method comprising the
[[step]] steps of:

generating, by a wireless communication apparatus, a multipath component using
multipath detection information sent from another wireless communication apparatus via a
wireless communication apparatus via a wireless network;

generating a signal inverted from an interference wave signal detected between said
multipath component and a send signal;

sending from [[a]] said wireless communication apparatus a signal ~~which cancels a
multipath component in another wireless communication apparatus~~ to said another wireless
communication apparatus with [[a]] said send signal via [[a]] said wireless network,

wherein said ~~signal which cancels said multipath component is a signal inverted from
an interference wave signal generated by using multipath detection information sent from
said another wireless communication apparatus via the wireless network~~ another wireless
communication apparatus receives said signal and said send signal so that an interference is
canceled by said signal.

Claim 9 (Currently Amended): A wireless communication method comprising the
steps of:

a first wireless communication apparatus detecting a state of multipath in said first
wireless communication apparatus;

said first wireless communication apparatus sending multipath detection information
on said state to a second wireless communication apparatus via a wireless network;

said second wireless communication apparatus receiving said multipath detection information;

said second wireless communication apparatus generating a multipath component using said multipath detection information, and generating a signal for canceling a multipath component an interference in said first wireless communication apparatus, wherein said signal is a signal inverted from an interference wave signal detected between said multipath component and a send signal ~~on the basis of said multipath detection information~~; and

said second wireless communication apparatus sending said signal for canceling said ~~multipath component~~ interference to said first wireless communication apparatus with said send signal via the wireless network[[,]].

~~wherein said signal for canceling said multipath component is a signal inverted from an interference wave signal generated by using multipath detection information sent from said first wireless communication apparatus via the wireless network.~~

Claim 10 (Currently Amended): A wireless communication apparatus comprising:
a multipath component canceling signal generation part which generates a multipath component using multipath detection information representing a state of multipath sent from another wireless communication apparatus, and generates a signal which cancels a multipath component an interference in said another wireless communication apparatus, wherein said signal is a signal inverted from an interference wave signal detected between said multipath component and a send signal ~~on the basis of multipath detection information representing a state of multipath sent from said another wireless communication apparatus via a wireless network~~; and

a send part which sends said signal which cancels said ~~multipath component~~
interference generated in said multipath component canceling signal generation part to said
another wireless communication apparatus with said send signal via the wireless network[[],].

~~wherein said signal which cancels said multipath component is a signal inverted from
an interference wave signal generated by using multipath detection information sent from
said another wireless communication apparatus via the wireless network.~~

Claim 11 (Currently Amended): ~~The wireless communication apparatus as claimed in
claim 10,~~ A wireless communication apparatus comprising:

a multipath component canceling signal generation part which generates a signal
which cancels a multipath component in another wireless communication apparatus on the
basis of multipath detection information representing a state of multipath sent from said
another wireless communication apparatus via a wireless network; and

a send part which sends said signal which cancels said multipath component
generated in said multipath component canceling signal generation part to said another
wireless communication apparatus via the wireless network,

wherein said signal which cancels said multipath component is a signal inverted from
an interference wave signal generated by using multipath detection information sent from
said another wireless communication apparatus via the wireless network, and

wherein said wireless communication apparatus sends an opposite phase wave of said
signal which cancels said multipath component at a time position of a multipath having no
interference in order to cancel said signal which cancels said multipath component.